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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,001	12/30/2003	Yat Kwong Lai	99,722	8375
20306	7590	05/09/2006	EXAMINER	
MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP			HEITBRINK, TIMOTHY W	
300 S. WACKER DRIVE			ART UNIT	
32ND FLOOR			PAPER NUMBER	
CHICAGO, IL 60606			1722	

DATE MAILED: 05/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/749,001

Applicant(s)

LAI ET AL.

Examiner

Tim Heitbrink

Art Unit

1722

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 May 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 10-19 is/are allowed.
- 6) ☒ Claim(s) 1-9 and 20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>9-20-04;12-27-05</u> . | 6) <input type="checkbox"/> Other: _____ |

Art Unit: 1722

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 6, 7, 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Aoki (US Patent 3,807,920).

Aoki discloses a first cavity chamber 22 forming a seal liner, a second cavity chamber 16 forming a shell, a first nozzle 11 for a seal liner material positioned near the outer edge, a second nozzle 13 for a shell material and a rotatable mold core 20 positioned in and moved between the first and second mold cavities.

The Examiner notes the materials of claim 7, but such materials are not considered relevant to the apparatus. See *In re Otto*, 312 F.2d 937, 136 USPQ 458 (CCPA 1963); *In re Young*, 75 F.2d 996, 25 USPQ 69 (CCPA 1935); MPEP 2115.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Aoki as applied to claims 1, 2, 6, 7, 8 above, and further in view of Taha (US Patent 6,551,093).

While Aoki does not provide a stripper plate to eject the molded article, Taha discloses a stripper plate 120 used to eject a molded article to be conventional.

Art Unit: 1722

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a stripper plate in the apparatus of Aoki in order to eject the molded article.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Aoki as applied to claims 1, 2, 6, 7, 8 above, and further in view of Ochs et al. (US Patent 4,803,031).

While Aoki does not disclose the mold core having an end forming a seal liner portion, Ochs et al. disclose a core 26 in the same field of endeavor having an end forming a seal liner 7 to be conventional.

Claims 5 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aoki as applied to claims 1, 2, 6, 7, 8 above, and further in view of Yanagihara et al.

While Aoki does not disclose a manifold to feed the material to the mold cavities, Yanagihara et al. discloses manifolds 22 and 24 to be material to a mold cavity to be conventional.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Aoki as applied to claims 1, 2, 6, 7, 8 above, and further in view of Olaru.

While Aoki does not disclose the nozzles to be thermal-gated and valve gated respectively, Olaru discloses using thermal-gated and valve gated nozzles in the same apparatus to feed two different cavities to be conventional.

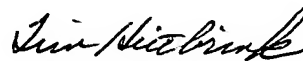
Claims 10-19 are allowed since the prior art fails to disclose four mold core as set forth in the claims.

Art Unit: 1722

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tim Heitbrink whose telephone number is 571-272-1132. The examiner can normally be reached on Monday-Friday 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on 571-272-1316. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Tim Heitbrink
Primary Examiner
Art Unit 1722

5-5-06

twh